

# Flow-Guided Warping for Image-Based Shape Manipulation (supplemental results)

Romain Vergne<sup>1,2</sup> Pascal Barla<sup>2</sup> Georges-Pierre Bonneau<sup>1,2</sup> Roland W. Fleming<sup>3</sup>  
Univ. Grenoble Alpes, CNRS<sup>1</sup> Inria<sup>2</sup> Justus Liebig Universität Gießen<sup>3</sup>

The following images show additional results obtained with our warping technique. Each sequence of 3 images uses  $\alpha = -1$  (sharpening),  $\alpha = 0$  (input) and  $\alpha = 1$  (rounding). These are best viewed in full-screen as a presentation for proper alignment.

For each image we give:

- ▶ The size of the image for the scale selection (which may be smaller than the warped image),
- ▶ The value of  $\gamma$



size = 1920 x 1440 ,  $\gamma = 0.286$





size = 1920 x 1440 ,  $\gamma = 0.286$



size = 1920 x 1440 ,  $\gamma = 0.286$



size = 500 x 608 ,  $\gamma = 0.652$



size = 500 x 608 ,  $\gamma = 0.652$



size = 500 x 608 ,  $\gamma = 0.652$



size = 500 x 666 ,  $\gamma = 0.118$





size = 500 x 666 ,  $\gamma = 0.118$



size = 500 x 666 ,  $\gamma = 0.118$

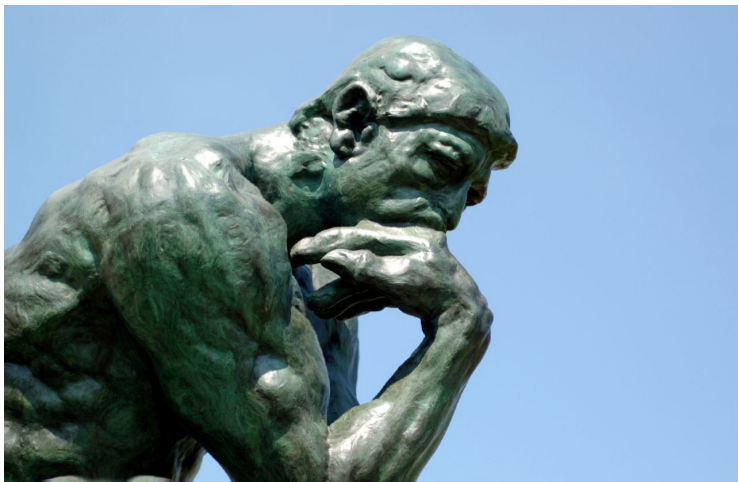




size = 500 x 331 ,  $\gamma = 0.118$



size = 500 x 331 ,  $\gamma = 0.118$



size = 500 x 331 ,  $\gamma = 0.118$



size = 800 x 533 ,  $\gamma = 2.0$



size = 800 x 533 ,  $\gamma = 2.0$



size = 800 x 533 ,  $\gamma = 2.0$



size = 800 x 743 ,  $\gamma = 0.624$



size = 800 x 743 ,  $\gamma = 0.624$





size = 800 x 743 ,  $\gamma = 0.624$



size = 1024 x 682 ,  $\gamma = 0.118$



size = 1024 x 682 ,  $\gamma = 0.118$



size = 1024 x 682 ,  $\gamma = 0.118$



size = 100 x 643 ,  $\gamma = 0.118$



size = 100 x 643 ,  $\gamma = 0.118$



size = 100 x 643 ,  $\gamma = 0.118$



size = 1920 x 1440 ,  $\gamma = 0.106$





size = 1920 x 1440 ,  $\gamma = 0.106$



size = 1920 x 1440 ,  $\gamma = 0.106$



size = 800 x 533 ,  $\gamma = 0.118$



size = 800 x 533 ,  $\gamma = 0.118$



size = 800 x 533 ,  $\gamma = 0.118$





size = 800 x 640 ,  $\gamma = 0.322$



size = 800 x 640 ,  $\gamma = 0.322$



size = 800 x 640 ,  $\gamma = 0.322$





size = 1000 x 666 ,  $\gamma = 1.414$



size = 1000 x 666 ,  $\gamma = 1.414$



size = 1000 x 666 ,  $\gamma = 1.414$



size = 1920 x 1289 ,  $\gamma = 0.770$



size = 1920 x 1289 ,  $\gamma = 0.770$



size = 1920 x 1289 ,  $\gamma = 0.770$



size = 1200 x 800 ,  $\gamma = 0.33$



size = 1200 x 800 ,  $\gamma = 0.33$





size = 1200 x 800 ,  $\gamma = 0.33$



size = 1920 x 1273 ,  $\gamma = 0.1$



size = 1920 x 1273 ,  $\gamma = 0.1$



size = 1920 x 1273 ,  $\gamma = 0.1$



size = 1000 x 1280 ,  $\gamma = 1.24$



size = 1000 x 1280 ,  $\gamma = 1.24$



size = 1000 x 1280 ,  $\gamma = 1.24$





size = 1920 x 1235 ,  $\gamma = 0.116$



size = 1920 x 1235 ,  $\gamma = 0.116$



size = 1920 x 1235 ,  $\gamma = 0.116$



size = 800 x 533 ,  $\gamma = 0.14$



size = 800 x 533 ,  $\gamma = 0.14$



size = 800 x 533 ,  $\gamma = 0.14$



size = 1920 x 1316 ,  $\gamma = 0.25$





size = 1920 x 1316 ,  $\gamma = 0.25$



size = 1920 x 1316 ,  $\gamma = 0.25$



size = 1500 x 1221 ,  $\gamma = 0.1$



size = 1500 x 1221 ,  $\gamma = 0.1$



size = 1500 x 1221 ,  $\gamma = 0.1$



size = 1000 x 673 ,  $\gamma = 0.6$



size = 1000 x 673 ,  $\gamma = 0.6$





size = 1000 x 673 ,  $\gamma = 0.6$



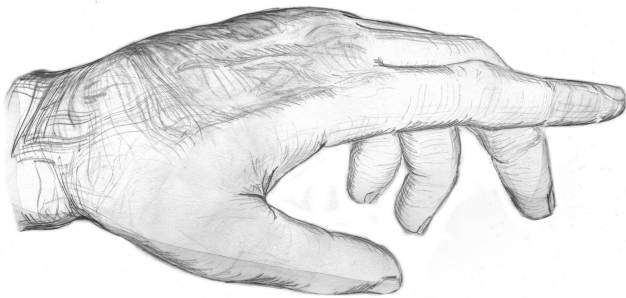
size = 900 x 776 ,  $\gamma = 1.24$



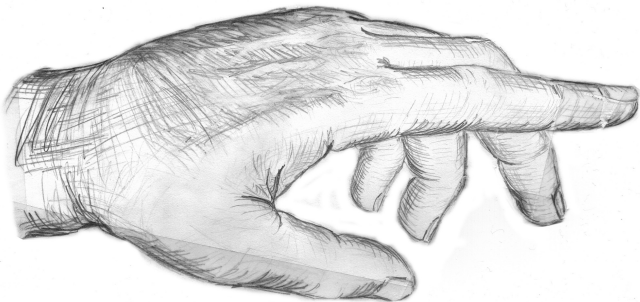
size = 900 x 776 ,  $\gamma = 1.24$



size = 900 x 776 ,  $\gamma = 1.24$



size = 1000 x 494 ,  $\gamma = 1.54$



size = 1000 x 494 ,  $\gamma = 1.54$



size = 1000 x 494 ,  $\gamma = 1.54$





size = 1920 x 1199 ,  $\gamma = 0.104$



size = 1920 x 1199 ,  $\gamma = 0.104$



size = 1920 x 1199 ,  $\gamma = 0.104$



size = 800 x 600 ,  $\gamma = 0.154$



size = 800 x 600 ,  $\gamma = 0.154$



size = 800 x 600 ,  $\gamma = 0.154$



size = 1280 x 853 ,  $\gamma = 0.5$





size = 1280 x 853 ,  $\gamma = 0.5$



size = 1280 x 853 ,  $\gamma = 0.5$



size = 1920 x 1920 ,  $\gamma = 0.1$



size = 1920 x 1920 ,  $\gamma = 0.1$



size = 1920 × 1920 ,  $\gamma = 0.1$



size = 1200 x 800 ,  $\gamma = 1.3$





size = 1200 x 800 ,  $\gamma = 1.3$





size = 1200 x 800 ,  $\gamma = 1.3$



size = 1920 x 1280 ,  $\gamma = 0.186$



size = 1920 x 1280 ,  $\gamma = 0.186$



size = 1920 x 1280 ,  $\gamma = 0.186$



size = 1100 x 729 ,  $\gamma = 0.058$





size = 1100 x 729 ,  $\gamma = 0.058$



size = 1100 x 729 ,  $\gamma = 0.058$





size = 1200 × 800 ,  $\gamma = 0.05$



size = 1200 × 800 ,  $\gamma = 0.05$



size = 1200 × 800 ,  $\gamma = 0.05$